

# **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	15982	Ajinomoto.AS.	US-PGPU B; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/27 12:26
S2	19286	Lion.AS.	US-PGPU B; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/27 12:18
S3	35258	S1 OR S2	US-PGPU B; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/27 12:18
S4	6	S3 AND (\$dodecanamid\$)	US-PGPU B; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/31 08:59
S5	659	S3 AND (guanidine or guanidinyI or guanidin\$ or \$guanidine)	US-PGPU B; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/31 09:01

# **EAST Search History**

S6	663	S4 OR S5	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/27 12:29
S7	523	S6 AND @AD<="20030220"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:25
S8	103	S7 AND (surfactant or soap or soap\$ or detergent or "wetting agent" or "surface active agent" or "surface active agent" or "surface-active agent" or "surface-active" or "surface stabilizer agent" or "surface stabilizer" or "surface-stabilizer agent" or "surface-stabilizer" or "surface stabilization agent" or "surface stabilization" or "surface-stabilization agent" or "surface-stabilization" or "surface stabiliser agent" or "surface stabiliser" or "surface-stabiliser agent" or "surface-stabiliser agent" or "surface-stabiliser" or "surface stabilisation agent" or "surface stabilisation" or "surface-stabilisation agent" or "surface-stabilisation")	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:03

# **EAST Search History**

S9	29	S7 AND ((surfactant or soap or detergent or "wetting agent" or "surface active agent" or "surface active" or "surface-active agent" or "surface-active" or "surface stabilizer agent" or "surface stabilizer" or "surface-stabilizer agent" or "surface-stabilizer" or "surface stabilization agent" or "surface stabilization" or "surface-stabilization agent" or "surface-stabilization" or "surface stabiliser agent" or "surface stabiliser" or "surface-stabiliser agent" or "surface-stabiliser" or "surface stabilisation agent" or "surface stabilisation" or "surface-stabilisation agent" or "surface-stabilisation" or NEAR10 (nonionic or non-ionic or ionic or cationic or anionic or amphiphilic or amphipathic or amphoteric or amphiprotic or zwitterionic))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/27 12:31
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S10	217	S7 AND (antiseptic\$ or "anti-septic\$" or antisepticiz\$ or "anti-septidiz\$" or antisepticid\$ or "anti-septicid\$" or septic\$ or aseptic\$ or asepticiz\$ or aseptic\$ or asepsis or antiseptis or "anti-sepsis" or asepticf\$ or sanitiz\$ or sanitis\$ or deodoriz\$ or deodoris\$ or steriliz\$ or sterilis\$ or disinfect\$ or preservative or antifouling or "anti-fouling" or antibiofouling or "anti-biofouling" or germicid\$ or antimicrobial or "anti-microbial" or microbiocid\$ or "micro-biocid\$" or biocid\$ or biostat or biostatic\$ or phytoncid\$ OR bactericid\$ or bacteriocid\$ or bacteriostas\$ or bacteriostat\$ or bacteria-stas\$ or bacteria-stat\$ or bacteristat\$ or bacteristat\$ or bacteriocin or colicin or antibacterial or "anti-bacterial" or antibiotic or "anti-biotic" or antiricket\$ or "anti-ricket\$" OR virucid\$ or viricid\$ or antiviral or "anti-viral" OR fungicid\$ or antifungal or "anti-fungal" or antimycotic or "anti-mycotic" or antimycosis or "anti-mycosis" or slimicid\$ or mildewcid\$ OR algicid\$ or algaecid\$ or acaracid\$ OR acaricid\$ or acaracid\$ or acaricid\$ or arachnidid\$ or arachnicid\$ or arthropodicid\$ or avicid\$ or herbicid\$ or insecticid\$ or larvacid\$ or larvicid\$ or miticid\$ or nematocid\$ or nematocid\$ or molluscicid\$ or molluskicid\$ or ovidic\$ or pesticid\$ or rodenticid\$ or termiticid\$)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:09
7/31/2006 12:18:19 PM C:\Documents and Settings\jw\My Documents\EAST\Workspaces\10771335_Kanatanl				Guanidine	Derivative-wsp	Page 4

# **EAST Search History**

S11	269	S8 OR S9 OR S10	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/27 12:32
S12	1658	((guanidine or guanidiny l or guanidin\$ or \$guanidine) NEAR5 (amide or amido))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:02

# EAST Search History

S13	10	((guanidine or guanidinyI or guanidin\$ or \$guanidine) NEAR5 (amide or amido) NEAR5 (surfactant or soap or soap\$ or detergent or "wetting agent" or "surface active agent" or "surface active" or "surface-active agent" or "surface-active" or "surface stabilizer agent" or "surface stabilizer" or "surface-stabilizer agent" or "surface-stabilizer" or "surface stabilization agent" or "surface stabilization" or "surface-stabilization agent" or "surface-stabilization" or "surface-stabilisation" or "surface stabiliser agent" or "surface stabiliser" or "surface-stabiliser agent" or "surface-stabiliser" or "surface stabilisation agent" or "surface stabilisation" or "surface-stabilisation agent" or "surface-stabilisation"))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:04
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## EAST Search History

S14	19	((guanidine or guanidiny or guanidin\$ or \$guanidine) NEAR5 (amide or amido) NEAR5 (antiseptic\$ or "anti-septic\$" or antisepticiz\$ or "anti-septiciz\$" or antisepticis\$ or "anti-septicis\$" or septic\$ or aseptic\$ or aseptiz\$ or aseptis\$ or asepsis or antiseptis or "anti-sepsis" or aseptif\$ or sanitiz\$ or sanitis\$ or deodoriz\$ or deodoris\$ or steriliz\$ or sterilis\$ or disinfect\$ or preservative or antifouling or "anti-fouling" or antibiofouling or "anti-biofouling" or germicid\$ or antimicrobial or "anti-microbial" or microbiocid\$ or "micro-biocid\$" or biocid\$ or biostat or biostatic\$ or phytoncid\$ OR bactericid\$ or bacteriocid\$ or bacteriostat\$ or bacteriostat\$ or bacteriastat\$ or bacteriastat\$ or bacteristat\$ or bacteristat\$ or bacteriocin or colicin or antibacterial or "anti-bacterial" or antibiotic or "anti-biotic" or antiricket\$ or "anti-ricket\$" OR virucid\$ or viricid\$ or antiviral or "anti-viral" OR fungicid\$ or antifungal or "anti-fungal" or antimycotic or "anti-mycotic" or antimycosis or "anti-mycosis" or slimicid\$ or mildewcid\$ OR algicid\$ or algaecid\$ or algaecid\$ OR acaricid\$ or acaracid\$ or acaricid\$ or arachnidid\$ or arthropodicid\$ or avicid\$ or herbicid\$ or insecticid\$ or larvacid\$ or larvicid\$ or miticid\$ or nematocid\$ or nematocid\$ or molluscicid\$ or molluscicid\$ or ovidid\$ or pesticid\$ or rodenticid\$ or termiticid\$))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:04
7/31/2006 12:18:19 PM C:\Documents and Settings\...	19	or mildewcid\$ OR algicid\$ or algaecid\$ or algaecid\$ OR acaricid\$ or acaracid\$ or acaricid\$ or arachnidid\$ or arthropodicid\$ or avicid\$ or herbicid\$ or insecticid\$ or larvacid\$ or larvicid\$ or miticid\$ or nematocid\$ or nematocid\$ or molluscicid\$ or molluscicid\$ or ovidid\$ or pesticid\$ or rodenticid\$ or termiticid\$))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:04

# EAST Search History

S15	17	((guanidine or guanidinyI or guanidin\$ or \$guanidine) NEAR5 (amide or amido) NEAR5 (hair or shampoo or conditioner))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:05
S16	43	S13 OR S14 OR S15	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:09
S17	5	S16 AND (("alkali metal" or "alkali element" or "alkali cation" or "monovalent cation" or "mono-valent cation" or lithium or sodium or potassium or rubidium or cesium or francium or metal) NEAR2 (fluoride or fluorine or fluoro or fluorinated or chloride or chlorine or chloro or chlorinated or bromide or bromine or bromo or brominated or iodide or iodine or iodo or iodinated or halide or halogen\$ or halogen or halogenate or halogenated or halogenation))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:10

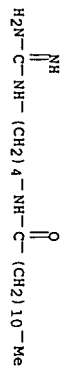
# EAST Search History

S18	8	S16 AND (osmolarity or osmotic or osmolyte or osmolytic or osmoregulat\$ or osmoadjust\$ or osmoconform\$ or tonicity or tonicifier or hypertonic or isotonic or hypotonic or electrolyte or electrolytic or saline or "salt solution" or "saline solution" or "sodium chloride solution" or "potassium chloride solution" or "crystalloid solution")	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 11:12
S19	10	S17 OR S18	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 09:25
S20	7	S19 AND @AD<="20030220"	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 10:11
S21	40	((osmolarity or osmotic or osmolyte or osmolytic or osmoregulat\$ or osmoadjust\$ or osmoconform\$ or tonicity or tonicifier or hypertonic or isotonic or hypotonic or electrolyte or electrolytic or saline or "salt solution" or "saline solution" or "sodium chloride solution" or "potassium chloride solution" or "crystalloid solution") NEAR5 ("sodium benzoate"))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 11:18

# EAST Search History

S22	519	((osmolarity or osmotic or osmolyte or osmolytic or osmoregulat\$ or osmoadjust\$ or osmoconform\$ or tonicity or tonicifier or hypertonic or isotonic or hypotonic or electrolyte or electrolytic or saline or "salt solution" or "saline solution" or "crystalloid solution") NEAR1 ("sodium sulfate"))	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2006/07/31 11:20
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=> S 499222-90-1/RN  
L6 1 499222-90-1/RN  
=> D SCAN L6  
L6 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN (SCI) Dodecanamide, N-[4-[(aminomimomethyl)amino]butyl]-, monohydrochloride  
MF C17 H36 N4 O . Cl H



● HCl

=> S L6  
L7 4 L6  
=> D L7 IBIB ABS HITSTR IND KWIC ED 1-4

17 ANSWER 1 OF 4 CAPUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:100238 CAPUS  
DOCUMENT NUMBER: 141:212330  
TITLE: liquid composition containing a guanidine amide group derivative and/or a salt thereof

INVENTOR(S): Kanatani, Eizo; Yumoka, Ryo; Miyazawa, Kiyoshi;  
Ikeeda, Hiroko  
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan  
SOURCE: Eur. Pat. Appl., 12 pp.  
DOCUMENT TYPE: Patent  
CODEN: EPXDXM  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

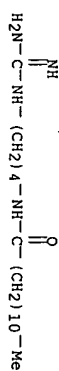
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1449519	A1	20040825	EP 2004-250815	20040216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004176464	A1	20040909	US 2004-771535	20040205
KR 2004075724	A	20040830	KR 2004-10324	20040217
JP 2004269518	A2	20040930	JP 2004-42406	20040219
CN 1530089	A	20040922	CN 2004-10030297	20040220
PRIORITY APPLN. INFO.: MARPAT 141:212330			JP 2003-42576	A 20030220

OTHER SOURCE(S):  
AB A liquid composition is described comprising a specific amide group-containing guanidine derivative or/and a salt thereof (component A) and at least one (component B) selected from the group consisting of an inorg. salt, an organic acid salt, a nonionic surfactant and an ampholytic surfactant with an action to suppress the generation of the precipitate of the component A. A method for suppressing the generation of the precipitate of a specific amide group-containing guanidine derivative or/and a salt thereof in a liquid composition containing the derivative or/and a salt thereof, as well as such liquid composition with improved storage stability can, thus, also be provided. For example, sodium chloride or potassium chloride was added to an aqueous 0.1% by weight solution of lauramide butyguanidine hydrochloride salt to various concns.,

for testing the storage stability at 25°. The states of the resulting solns. were confirmed visually, immediately after dissoln., one day later and 7 days later. The addition of sodium chloride or potassium chloride improved the storage stability. Great storage stability one day later and thereafter could be confirmed at 0.1% by weight or more of sodium chloride. The type and concentration of the additive can be modified, depending

on the term and conditions required for the storage stability, in light of the product and form of the liquid composition  
IT 499222-90-1  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)  
RN 499222-90-1 CAPUS  
CN Dodecanamide, N-[4-[(aminomimomethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IC ICM A61K007-50  
ICS A61K007-32  
CC 62-1 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63  
ST guanidine deriv amide liq cosmetic pharmaceutical ptn suppression; salt  
IT surfactant ptn suppression guanidine deriv amide liq Mouthwashes  
(agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)  
IT Salts, uses  
Sulfobetaines  
RL: MOA (Modifier or additive use); USES (Uses)  
(agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)

IT Surfactants  
(amphoteric; agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)

IT Betailnes  
RL: MOA (Modifier or additive use); USES (Uses)  
(carbo-; agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)

IT Fatty acids, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(ethoxylated; agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)

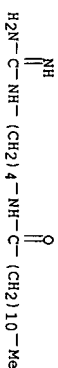
IT Castor oil  
RL: MOA (Modifier or additive use); USES (Uses)  
(hydrogenated, ethoxylated ester derivs.; agents for suppression of precipitation of liquid comps. containing amide group-containing guanidines or their salts)

IT Betailnes  
RL: MOA (Modifier or additive use); USES (Uses)

(hydroxysulfo-; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Cosmetics  
Drug delivery systems  
(1493; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Cosmetics  
(lotions; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Surfactants  
(nonionic; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Salts, uses  
RI: MOA (Modifier or additive use); USES (Uses)  
(organic; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Precipitation (chemical)  
(suppression of; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT Paper  
(issue, wet; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT 113-00-8D, Guanidine, amide group-containing deriva. 161865-39-0  
499222-90-1 742095-71-2  
RI: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(agents for suppression of precipitation of liquid comps. containing amide  
group-containing guanidines or their salts)  
IT 72-17-3, Sodium lactate 98-79-3D, Pyrogutamic acid, ethoxylated castor  
oil ester deriva. 127-08-2, Potassium acetate 142-47-2, Sodium  
glutamate 583-09-1, Potassium malate 676-46-0, Sodium malate  
7447-40-7, Potassium chloride, uses 7647-14-5, Sodium chloride, uses  
14007-45-5, Potassium aspartate 17090-93-6, 30399-84-9D, Isostearyl  
acid, ethoxylated castor oil ester deriva. 147130-22-1  
RI: MOA (Modifier or additive use); USES (Uses)  
(agents for suppression of precipitation of liquid comps. containing amide  
group-containing guanidines or their salts)  
IT 124d1-09-7D, Sorbitan, fatty acid esters, ethoxylated  
RI: MOA (Modifier or additive use); USES (Uses)  
(surfactants; agents for suppression of precipitation of liquid comps.  
containing amide group-containing guanidines or their salts)  
IT 113-00-8D, Guanidine, amide group-containing deriva. 161865-39-0  
499222-90-1 742095-71-2  
RI: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(agents for suppression of precipitation of liquid comps. containing amide  
group-containing guanidines or their salts)  
ED Entered STN: 27 Aug 2004

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:198499 CAPLUS  
DOCUMENT NUMBER: 140:240599  
TITLE: Nonirritating hair wave-setting preparations  
containing guanidines, and hair setting by them  
Imai, Hiroko; Ashida, Naoko; Ogihara, Hiroyuki;  
Nishimura, Sonoko; Shimizu, Atsushi

PATENT ASSIGNEE(S): Lion Corp., Japan  
SOURCE: Jpn. Kokai Tokyo Koho, 18 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
JP 2004075588 A2 20040311 JP 2002-236305 20020814  
PRIORITY APPL. INFO.:  
JP 2002-236305  
OTHER SOURCE(S):  
MARPAT 140:240599  
Title preps. contain R1(CONHAm)NHC:(NH)NH2 (R1 = C1-36 linear or  
branched alkyl, alkenyl; A = C1-10 linear or branched alkylene,  
alkenylene; m = 0, 1; n = 1-5) and optional permeation accelerators. The  
preps. are also useful for straightening curly hair. Thus, hair was  
wound around rods and soaked in aqueous solution con. 6-  
guanidinohexylhexanoylamide HCl salt for wave setting.  
IT 499222-90-1  
RI: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(nonirritating hair wave-setting and straightening preps. containing  
amido-containing guanidines)  
RN 499222-90-1 CAPLUS  
CN Dodecanamide, N-[4-(aminominoethyl)amino]butyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)



● HCl

IC ICM A61K007-11  
CC 62-3 (Essential Oils and Cosmetics)  
ST hair permanent wave guanidine; curly hair straightening guanidine  
IT Carboxylic acids, biological studies  
RI: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological  
study); USES (Uses)  
(dicarboxylic, esters, permeation promoters; nonirritating hair  
wave-setting and straightening preps. containing amido-containing  
guanidines)  
IT Human  
(nonirritating hair wave-setting and straightening preps. containing  
amido-containing guanidines)  
IT Hair preparations  
(permanent wave; nonirritating hair wave-setting and straightening  
preps. containing amido-containing guanidines)  
IT 161865-39-0 161865-40-3 499222-90-1 499222-91-2  
499222-92-3 499222-93-4 499223-19-7 668985-34-0 668985-36-2  
668985-38-4  
RI: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(nonirritating hair wave-setting and straightening preps. containing  
amido-containing guanidines)  
IT 100-51-6, Benzyl alcohol, biological studies 112-59-4, Diethylene glycol  
monohexyl ether 123-34-2, Glycerin 1-allyl ether 6938-94-9,  
DIISOPROPYL ADIPATE 84137-71-3  
RI: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological  
study); USES (Uses)  
(permeation promoter; nonirritating hair wave-setting and straightening

preps. containing amide-containing guanidines)  
 IT 161865-39-0 161865-40-3 499222-90-1 499222-91-2  
 469222-92-3 499222-93-4 499223-19-7 668985-34-0 668985-36-2  
 668985-38-4  
 RI: COS (cosmetic use); BIOL (Biological study); USES (Uses)  
 (nonirritating hair wave-setting and straightening preps. containing  
 amide-containing guanidines)  
 ED Entered STN: 11 Mar 2004

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:516967 CAPLUS  
 DOCUMENT NUMBER: 139:230985  
 TITLE: Cooperative Binding and the Conformation of  
 Poly(L-glutamic Acid) in Guanidinium Salts with an  
 Alkanoylamidoalkyl Group  
 AUTHOR(S): Fukui, H.; Hatano, K.; Kamio, K.; Miyake, M.; Tamura,  
 T.; Hayakawa, K.  
 CORPORATE SOURCE: Department of Chemistry and Bioscience, Faculty of  
 Science, Kagoshima University, Kagoshima, 890-0065,  
 Japan  
 SOURCE: Journal of Physical Chemistry B (2003), 107(32),  
 8218-8222  
 CODEN: JPCBFK; ISSN: 1520-6106  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB The authors investigated the change in the conformation of poly(L-glutamic  
 acid), P(Glu), from a random coil to an  $\alpha$ -helix in solns. of  
 guanidinium salts with a dodecanoylamidoalkyl group,  
 Me(CH<sub>2</sub>)<sub>10</sub>CONH(C(=NH)NH<sub>2</sub> (Cl<sub>2</sub>AOG) and Me(CH<sub>2</sub>)<sub>10</sub>CONH(CH<sub>2</sub>)mNH(C(=NH)NH<sub>2</sub>  
 (Cl<sub>2</sub>AmG; m = 2, 3, 4, 6). Cl<sub>2</sub>AOG and Cl<sub>2</sub>AmG (m = 2, 3, 4) induced an  
 $\alpha$ -helix in P(Glu), but Cl<sub>2</sub>AmG failed. Binding isotherms were  
 constructed from the potentiometry of bound Cl<sub>2</sub>AmG and cooperative binding  
 was observed, as found in many regular surfactants. All Cl<sub>2</sub>AmG gave a  
 similar cooperative parameter and overall binding const. of comparative  
 order (113 + 103 to 255 + 103). In contrast to the methylene  
 group in regular surfactants, the methylene spacer in Cl<sub>2</sub>AmG had a minor  
 effect on hydrophobic interactions. Cl<sub>2</sub>AOG showed the strongest  
 cooperative binding and effect on the formation of the  $\alpha$ -helix in  
 P(Glu). The methylene spacer interfered with Cl<sub>2</sub>AmG binding and  
 $\alpha$ -helix formation in P(Glu).  
 IT 499222-90-1  
 RI: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); PROC (Process)  
 (cooperative binding and conformational changes of poly(L-glutamic  
 acid) in presence of dodecanoylamidoalkyl guanidinium salts)  
 RN 499222-90-1 CAPLUS  
 CN Dodecanamide, N-[4-[(aminomethyl)amino]butyl]-, monohydrochloride  
 (9CI) (CA INDEX NAME)

$$\text{H}_2\text{N}-\text{C}(\text{NH})-\text{NH}-(\text{CH}_2)_4-\text{NH}-\text{C}(\text{O})-(\text{CH}_2)_{10}-\text{Me}$$

● HCl

CC 34-3 (Amino Acids, Peptides, and Proteins)  
 Section cross-reference(s): 22  
 ST conformation glutamate polymer binding alkanoylamidoalkyl guanidinium salt  
 IT Isotherms

(binding; cooperative binding and conformational changes of  
 poly(L-glutamic acid) in presence of dodecanoylamidoalkyl guanidinium  
 salts)  
 IT Conformational transition  
 $\alpha$ -Helix  
 (cooperative binding and conformational changes of poly(L-glutamic  
 acid) in presence of dodecanoylamidoalkyl guanidinium salts)  
 IT Peptides, properties  
 RI: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); PROC (Process)  
 (cooperative binding and conformational changes of poly(L-glutamic  
 acid) in presence of dodecanoylamidoalkyl guanidinium salts)  
 IT Onium compounds  
 RI: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); PROC (Process)  
 (guanidinium, salts; cooperative binding and conformational changes of  
 poly(L-glutamic acid) in presence of dodecanoylamidoalkyl guanidinium  
 salts)  
 IT 24991-23-9, Poly(L-glutamic acid), sru 25513-46-6, Poly(L-glutamic acid)  
 58075-15-3 131448-39-0 142348-21-8 499222-90-1 59556-14-6  
 RI: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); PROC (Process)  
 (cooperative binding and conformational changes of poly(L-glutamic  
 acid) in presence of dodecanoylamidoalkyl guanidinium salts)  
 IT 24991-23-9, Poly(L-glutamic acid), sru 25513-46-6, Poly(L-glutamic acid)  
 58075-15-3 131448-39-0 142348-21-8 499222-90-1 59556-14-6  
 RI: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); PROC (Process)  
 (cooperative binding and conformational changes of poly(L-glutamic  
 acid) in presence of dodecanoylamidoalkyl guanidinium salts)  
 ED Entered STN: 08 Jul 2003  
 REFERENCE COUNT: 23  
 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:150590 CAPLUS  
 DOCUMENT NUMBER: 138:193288  
 TITLE: Preparation of dermally-applicable bactericidal  
 guanidine derivatives  
 INVENTOR(S): Yumoto, Ryoosuke; Nakajishi, Noriyuki; Yokota,  
 Hirofumi  
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan  
 SOURCE: Eur. Pat. Appl., 33 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1285579	A1	20030226	EP 2002-255443	20020805
EP 1285579	B1	20051102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003162838	A1	20030828	US 2002-212733	20020807
JP 2003155206	A2	20030527	JP 2002-236669	20020814
CN 1401240	A	20030312	CN 2002-130487	20020821
			JP 2001-250557	A 20010821

PRIORITY APPLN. INFO.:  
 MARPAT 138:193288  
 AB The title compds. R3CONR1ANR2C(=NH)NH<sub>2</sub>, wherein R1 and R2 are H, straight  
 or branched alkyl or alkenyl, having 1 to 4 carbon atoms, R3 denotes a  
 straight or branched alkyl group or alkenyl group having 1 to 22 carbon  
 atoms, and A denotes a straight or branched alkylene group or alkenylene

group having 1 to 10 carbon atoms, are prepared The compds. are usable as washing compns. and antibacterial fiber aggregates, as well.

IT 499222-90-1P  
RL: BUU (biological use, unclassified); SPW (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USGS (Uses)  
[preparation as bactericide]

RN 499222-90-1 CAPUS  
Dodecanamide, N-[4-[(aminomimomethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

IC ICM AD1047-44  
63-6 (Pharmaceuticals)  
CC Section cross-reference(s): 10, 23  
ST skin pharmaceutical bactericide guanidine deriv prep  
IT Antibacterial agents  
IT Skin preparations (pharmaceutical)  
IT Health products  
[fiber aggregates; dermally-applicable bactericidal guanidine derivs.]

IT 306-60-5D, cocoylamide, phosphate salt 52198-75-1D, cocoylamide, acetate and citrate salts 61593-24-6D, cocoylamide, citrate salt 143555-54-8  
159888-54-5 161865-39-0 185330-57-8 185993-04-8 340027-60-3  
499222-91-2 499222-92-3 499222-93-4 499222-94-5 499222-95-6  
499222-97-8 499222-99-0 499223-00-6 499223-01-7 499223-02-8  
499223-05-1 499223-06-2 499223-07-3 499223-08-4 499223-09-5  
499223-11-9 499223-13-1 499223-14-2 499223-15-3 499223-16-4  
499223-17-5 499223-18-6 499223-19-7 499223-20-0 499223-21-1  
RL: BUU (biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USGS (Uses)  
[dermally-applicable bactericide]

IT 499222-90-1P  
RL: BUU (biological use, unclassified); SPW (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USGS (Uses)  
[preparation as bactericide]

IT 112-16-3, lauroyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
IT 2482-00-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
IT 499222-90-1P  
RL: BUU (biological use, unclassified); SPW (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USGS (Uses)  
[preparation as bactericide]

=> FILE BIOSIS  
=> S L7

ED Entered STN: 27 Feb 2003  
REFERENCE COUNT: 8  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

18 0 L6

=> FILE USPATFULL  
=> S L7  
19 2 L6

19 ANSWER 1 OF 2 USPATFULL on STN  
ACCESSION NUMBER: 2004:228078 USPATFULL  
TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):  
Liquid composition with improved storage stability, which contains an amide group-containing guanidine derivative or/and a salt thereof  
KANATANI, EIZO, KAWASAKI-SHI, JAPAN  
YUNIOKA, RYOSUKE, TOKYO, JAPAN  
MIYAZAWA, KIYOSHI, KAGAWA-KEN, JAPAN  
IKEDA, HIROKO, KAKEGAWA-SHI, JAPAN  
Ajinomoto Co., Inc., Tokyo, JAPAN (non-U.S. corporation)

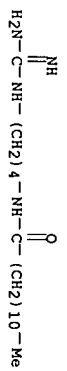
NUMBER	KIND	DATE
US 2004:176464	A1	20040909
US 2004:771535	A1	20040205 (10)

PRIORITY INFORMATION: JP 2003-42576 20030220  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314

NUMBER OF CLAIMS: 1  
EXEMPLARY CLAIM: 1  
LINE COUNT: 566

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Herein is disclosed a liquid composition containing a specific amide group-containing guanidine derivative or/and a salt thereof (component A) and at least one (component B) selected from the group consisting of an inorganic salt, an organic acid salt, a nonionic surfactant and an amphoteric surfactant with an action to suppress the generation of the precipitate of the component A, in accordance with which can be provided a method for suppressing the generation of the precipitate of a specific amide group-containing guanidine derivative or/and a salt thereof in a liquid composition containing the derivative or/and a salt thereof, as well as such liquid composition with improved storage stability can be provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
IT 499222-90-1  
(agents for suppression of precipitation of liquid compns. containing amide group-containing guanidines or their salts)  
RN 499222-90-1 USPATFULL  
CN Dodecanamide, N-[4-[(aminomimomethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

INCL INCLM: 514/629.000  
 INCL: 424/679.000; 424/680.000  
 NCL NCLM: 514/629.000  
 NCL: 424/679.000; 424/680.000  
 IC (7)  
 ICM A61K031-16  
 ICS A61K033-14  
 IPCI A61K0031-16 [ICM,7]; A61K0033-14 [ICS,7]  
 IPCR A61K0008-02 [I,A]; A61K0008-02 [I,C\*]; A61K0008-19 [I,C\*];  
 A61K0008-20 [I,A]; A61K0008-30 [I,C\*]; A61K0008-37 [I,A];  
 A61K0008-43 [I,A]; A61K0008-44 [I,A]; A61Q0011-00 [I,A];  
 A61Q0011-00 [I,C\*]; A61Q0019-00 [I,A]; A61Q0019-00 [I,C\*]  
 CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2006 ACS on STN  
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 PATENT KIND DATE  
 -----  
 OS CA 141:212330 \* EP 1449519 A1 20040825  
 \* CA Indexing for this record included  
 CC 62-1 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 63  
 ST guanidine deriv amide liq cosmetic pharmaceutical pptn suppression; salt  
 surfactant pptn suppression guanidine deriv amide liq  
 Mouthwashes  
 IT (agents for suppression of precipitation of liquid comps. containing amide  
 group-containing guanidines or their salts)  
 IT Salts, uses  
 Sulfobetaines  
 (agents for suppression of precipitation of liquid comps. containing amide  
 group-containing guanidines or their salts)  
 IT Surfactants  
 (amphoeric; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT Betaines  
 (carbo-; agents for suppression of precipitation of liquid comps.  
 containing amide  
 group-containing guanidines or their salts)  
 IT Fatty acids, uses  
 (ethoxylated; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT Castor oil  
 (hydrogenated, ethoxylated ester deriv.; agents for suppression of  
 precipitation of liquid comps. containing amide group-containing  
 guanidines or their  
 salts)  
 IT Betaines  
 (hydroxysulfo-; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT Cosmetics  
 Drug delivery systems  
 (lign.; agents for suppression of precipitation of liquid comps.  
 containing amide  
 group-containing guanidines or their salts)  
 IT Cosmetics  
 (lotions; agents for suppression of precipitation of liquid comps.  
 containing amide  
 group-containing guanidines or their salts)  
 IT Surfactants  
 (nonionic; agents for suppression of precipitation of liquid comps.  
 containing amide  
 group-containing guanidines or their salts)

IT Salts, uses  
 (organic; agents for suppression of precipitation of liquid comps.  
 containing amide  
 group-containing guanidines or their salts)  
 IT Precipitation (chemical)  
 (suppression of; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT Paper  
 (tissue, wet; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT 113-00-8D, Guanidine, amide group-containing deriva. 161865-39-0  
 499222-90-1 742095-71-2  
 (agents for suppression of precipitation of liquid comps. containing amide  
 group-containing guanidines or their salts)  
 IT 72-17-3, Sodium lactate 98-79-3D, Pyroglutamic acid, ethoxylated castor  
 oil ester deriva. 127-08-2, Potassium acetate 142-47-2, Sodium  
 glutamate 583-09-1, Potassium malate 676-46-0, Sodium malate  
 7447-40-7, Potassium chloride, uses 7647-14-5, Sodium chloride, uses  
 14007-45-5, Potassium aspartate 17090-93-6 30399-84-9D, Isostearic  
 acid, ethoxylated castor oil ester deriva. 147130-22-1  
 (agents for suppression of precipitation of liquid comps. containing amide  
 group-containing guanidines or their salts)  
 IT 12441-09-7D, Sorbitan, fatty acid esters, ethoxylated  
 (surfactants; agents for suppression of precipitation of liquid comps.  
 containing  
 amide group-containing guanidines or their salts)  
 IT 113-00-8D, Guanidine, amide group-containing deriva. 161865-39-0  
 499222-90-1 742095-71-2  
 (agents for suppression of precipitation of liquid comps. containing amide  
 group-containing guanidines or their salts)  
 L9 ANSWER 2 OF 2 USPATFILL on STN  
 ACCESSION NUMBER: 2003:232637 USPATFILL  
 TITLE: Bactericide, antiseptic, dermally applicable  
 composition, washing composition, antibacterial fiber  
 aggregate, method for eradication a microorganism, and  
 method for inhibiting the proliferation of a  
 microorganism  
 Yumitoka, Ryosuke, Kanagawa, JAPAN  
 Nakaniishi, Noriyuki, Kanagawa, JAPAN  
 Yokota, Hirofumi, Kanagawa, JAPAN  
 Ajinomoto Co., Inc., Tokyo, JAPAN (non-U.S.  
 corporation)  
 PATENT ASSIGNEE(S):  
 INVENTOR(S):  
 NUMBER KIND DATE  
 -----  
 PATENT INFORMATION: US 2003162838 A1 20030828  
 APPLICATION INFO.: US 2002-212733 A1 20020807 (10)  
 PRIORITY INFORMATION: JP 2001-250557 20010821  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: ORION SEIYAK MCCLELLAND MATER & NEUSTADT PC, FOURTH  
 FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA,  
 22202  
 NUMBER OF CLAIMS: 8  
 EXEMPLARY CLAIM: 1  
 LINE COUNT: 1394  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB A bactericide and an antiseptic comprises at least an amide

group-containing guanidine derivative represented by General Formula (I)  
or a salt thereof: ##STR1##

(preparation as bactericide)

wherein R<sub>1</sub> and R<sub>2</sub> are same or different and each denotes a hydrogen atom, a straight or branched alkyl group or alkenyl group having 1 to 4 carbon atoms; R<sub>3</sub> denotes a straight or branched alkyl group or alkenyl group having 1 to 22 carbon atoms, and R<sub>4</sub> denotes a straight or branched alkylene group or alkenylene group having 1 to 10 carbon atoms.

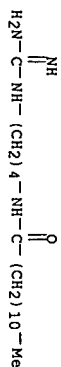
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 499222-90-1P

(preparation as bactericide)

RN 499222-90-1 USP/FUL

CN Dodecanamide, N-[4-(aminomethyl)amino]butyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

INCL INCLM: 514/625.000

NCL NCLM: 514/625.000

IC [7]

ICM A61K031-16 [ICM, 7]

IPC1 A61K031-16 [I, C\*]

IPCR A01N0047-40 [I, C\*]; A01N0047-44 [I, A]

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2006 ACS on STM

PATENT KIND DATE

OS CA 138:193288 \* EP 128579 A1 20030226

\* CA Indexing for this record included

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 10, 23

ST skin pharmaceutical bactericide guanidine deriv prepn

IT Antibacterial agents

Skin preparations (pharmaceutical)

(dermally-applicable bactericidal guanidine derivs.)

IT Health products (fiber aggregates; dermally-applicable bactericidal guanidine derivs.)

306-60-50, cocoylamide, phosphate salt 52198-75-1D, cocoylamide, acetate

and citrate salts 61593-24-6D, cocoylamide, citrate salt 143555-54-8

159858-54-5 161865-39-0 185330-57-8 185993-04-8 340027-60-3

499222-91-2 499222-92-3 499222-93-4 499222-94-5 499222-95-6

499222-97-8 499222-99-0 499223-00-6 499223-01-7 499223-02-8

499223-05-1 499223-06-2 499223-07-3 499223-08-4 499223-09-5

499223-11-9 499223-13-1 499223-14-2 499223-15-3 499223-16-4

499223-17-5 499223-18-6 499223-19-7 499223-20-0 499223-21-1

(dermally-applicable bactericide)

IT 499222-90-1P

(preparation as bactericide)

IT 112-16-3, lauroyl chloride

(reactant in preparation of bactericidal guanidine derivative)

IT 2482-00-0

(reactant in preparation of bactericidal guanidine derivs.)

IT 499222-90-1P